



Traffic Impact Study Preparation for BRAC-133

Fairfax County
Department of Transportation

Mason District BRAC-133 Task Force
June 7, 2011

Traffic Impact Study

SOURCES

Proposed Comprehensive Plan Amendments:

- APR #09-I-1L
- APR #09-I-2L

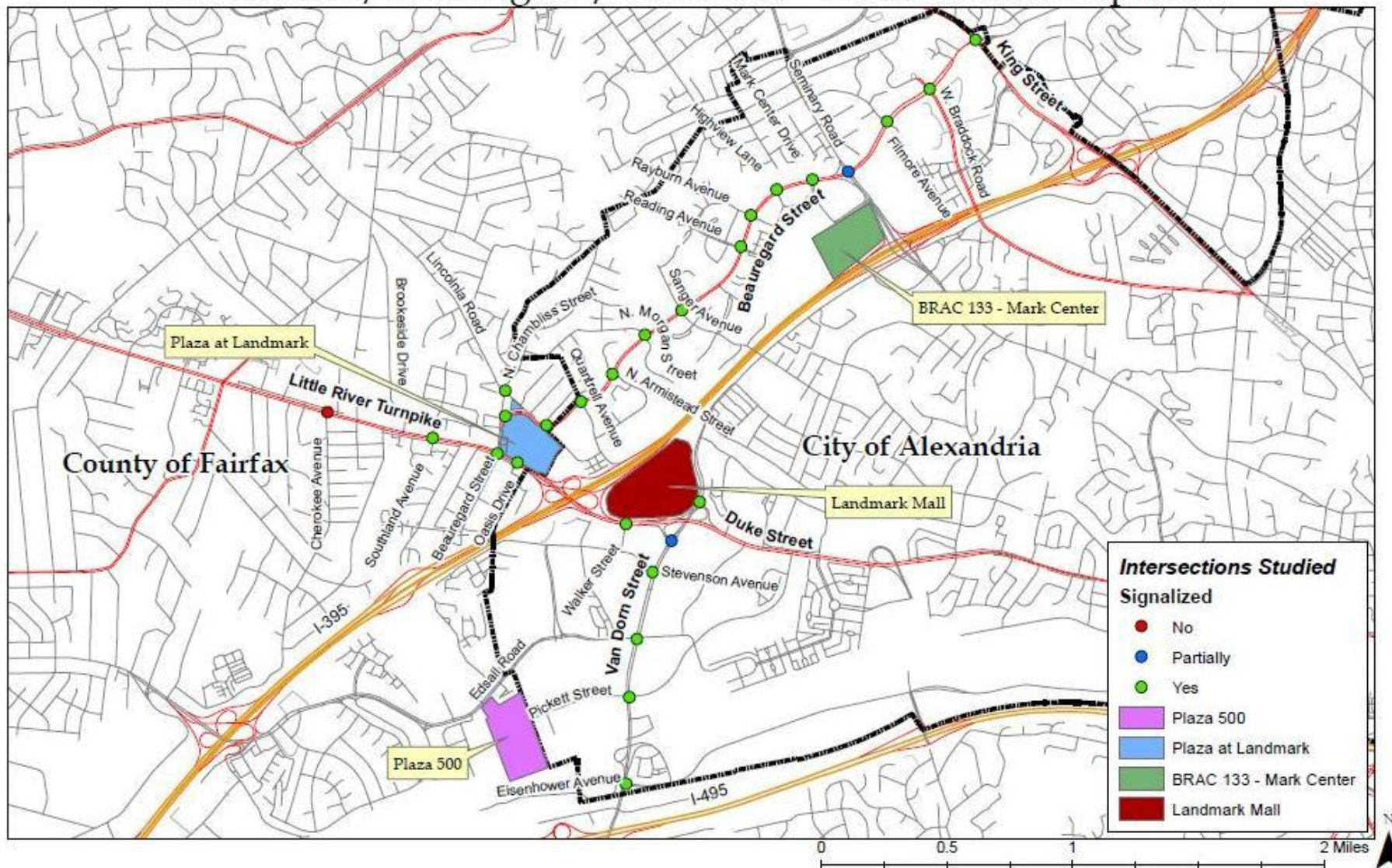
City of Alexandria Studies:

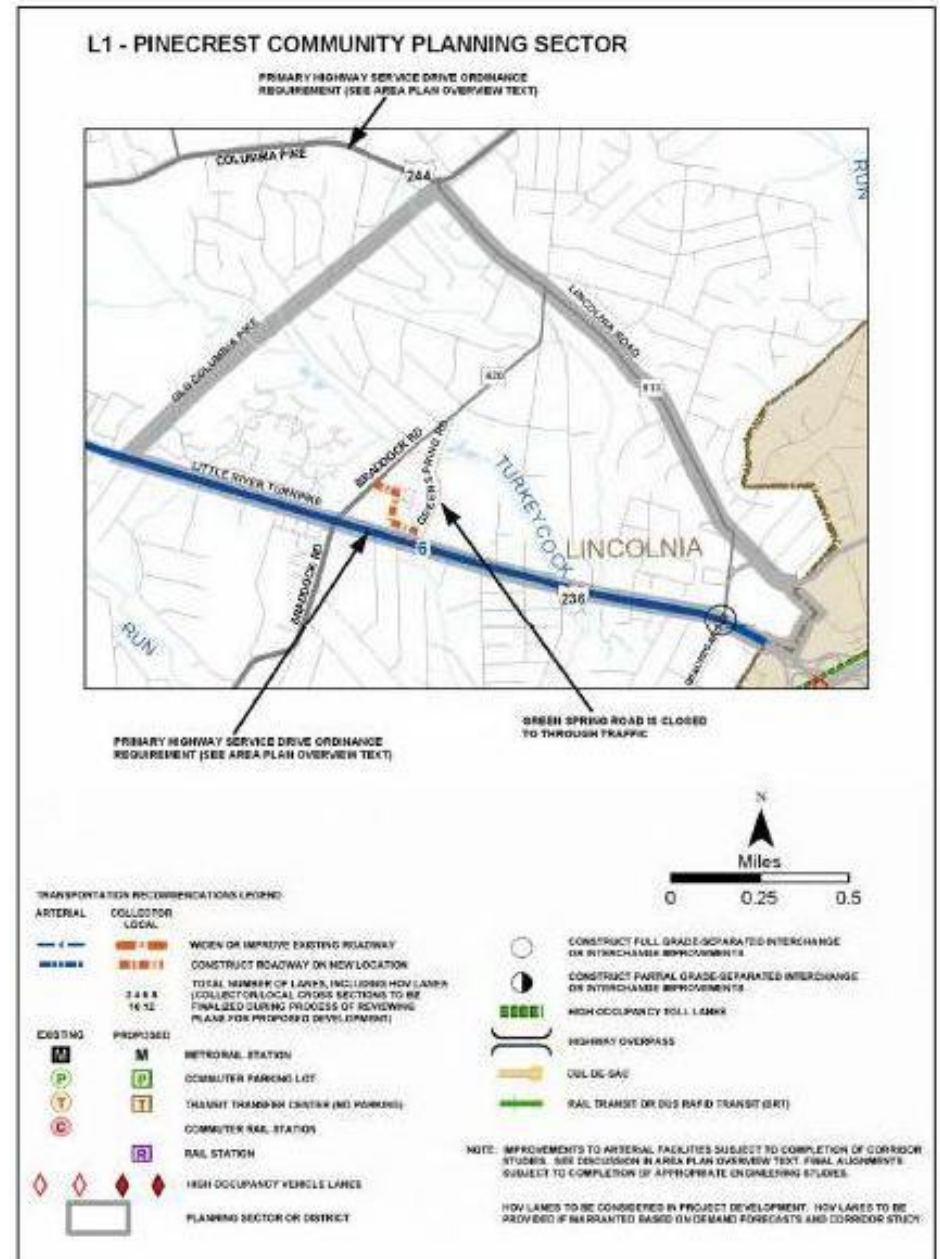
- Beauregard Corridor Plan
- Landmark Van Dorn Corridor Plan

VDOT Studies:

- Mark Center (BRAC 133) Access Study
- I-95/I-395 HOV/Bus/HOT Lanes Interchange Justification Report
- Route 236 Corridor Study

Route 236/Beauregard/Van Dorn - Mark Center Impacts





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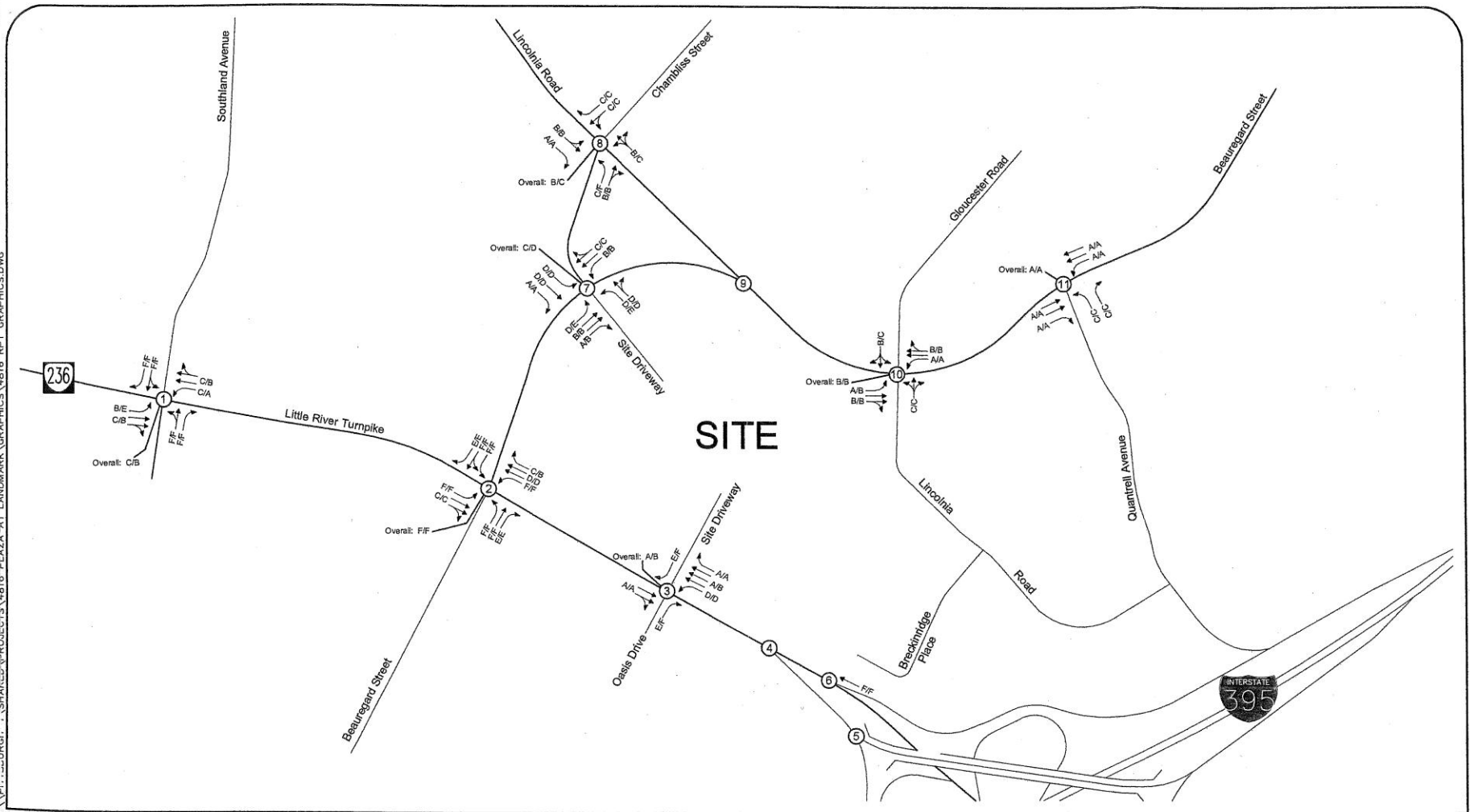


Figure 4-6
2030 Baseline Peak Hour Levels of Service

Landmark Plaza
Fairfax County, Virginia

Wells + Associates, Inc.

2030 Levels of Service (With BRAC)



Route 236 (Little River Turnpike) at Beauregard Street

2030 LEVELS OF SERVICE AND AVERAGE DELAY (WITH BRAC)

Route 236 (Little River Turnpike) at Beauregard Street

AM PEAK HOUR

| | 2010 | 2030 |
|---------------------------------|--|------------------|
| Overall Intersection Operation: | LOS E (57.8 sec) | LOS F (85.3 sec) |
| Failing: | EBL(+37.6), WBL(+36.3), NBL(+26.1), NBT, SBL(+144.9), SBLT(+153.7) | |

PM PEAK HOUR

| | 2010 | 2030 |
|---------------------------------|--|------------------|
| Overall Intersection Operation: | LOS F (83.3 sec) | LOS F (89.3 sec) |
| Failing: | EBL, WBL, NBL(+74.2), NBT, SBL(+67.9), SBLT(+68.8) | |

POTENTIAL SOLUTIONS

Additional SB Left Turn Capacity (Triple Lefts) – Right-of-Way Impacts



Route 236 (Little River Turnpike) at Cherokee Avenue

2030 LEVELS OF SERVICE AND AVERAGE DELAY (WITH BRAC)

Route 236 (Little River Turnpike) at Cherokee Avenue

AM PEAK HOUR

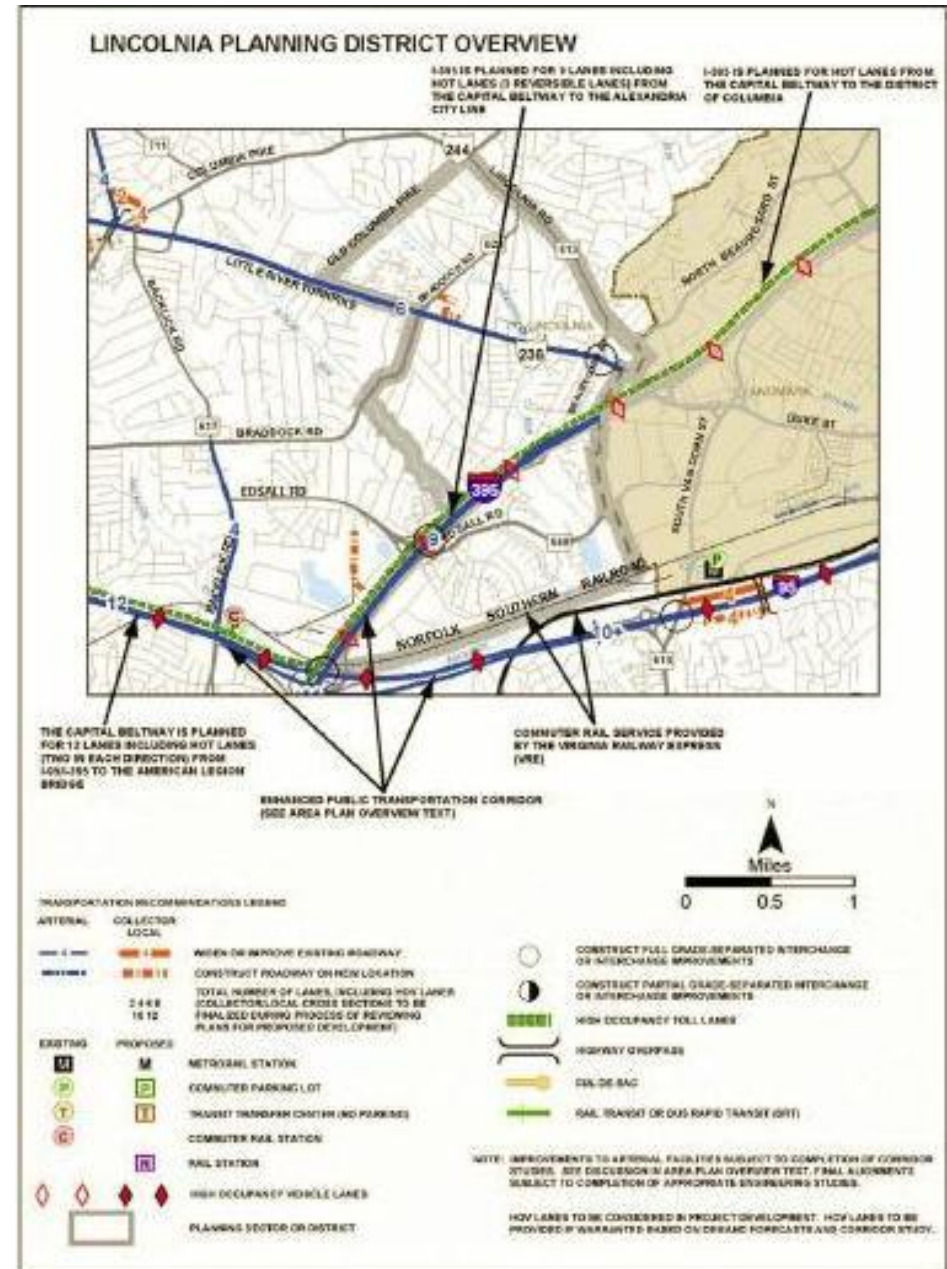
| | 2010 | 2030 |
|-----------------|-------------------|-----------------|
| NB Movement: | LOS F (325.7 sec) | LOS F (ERR sec) |
| Failing: NB, SB | | |

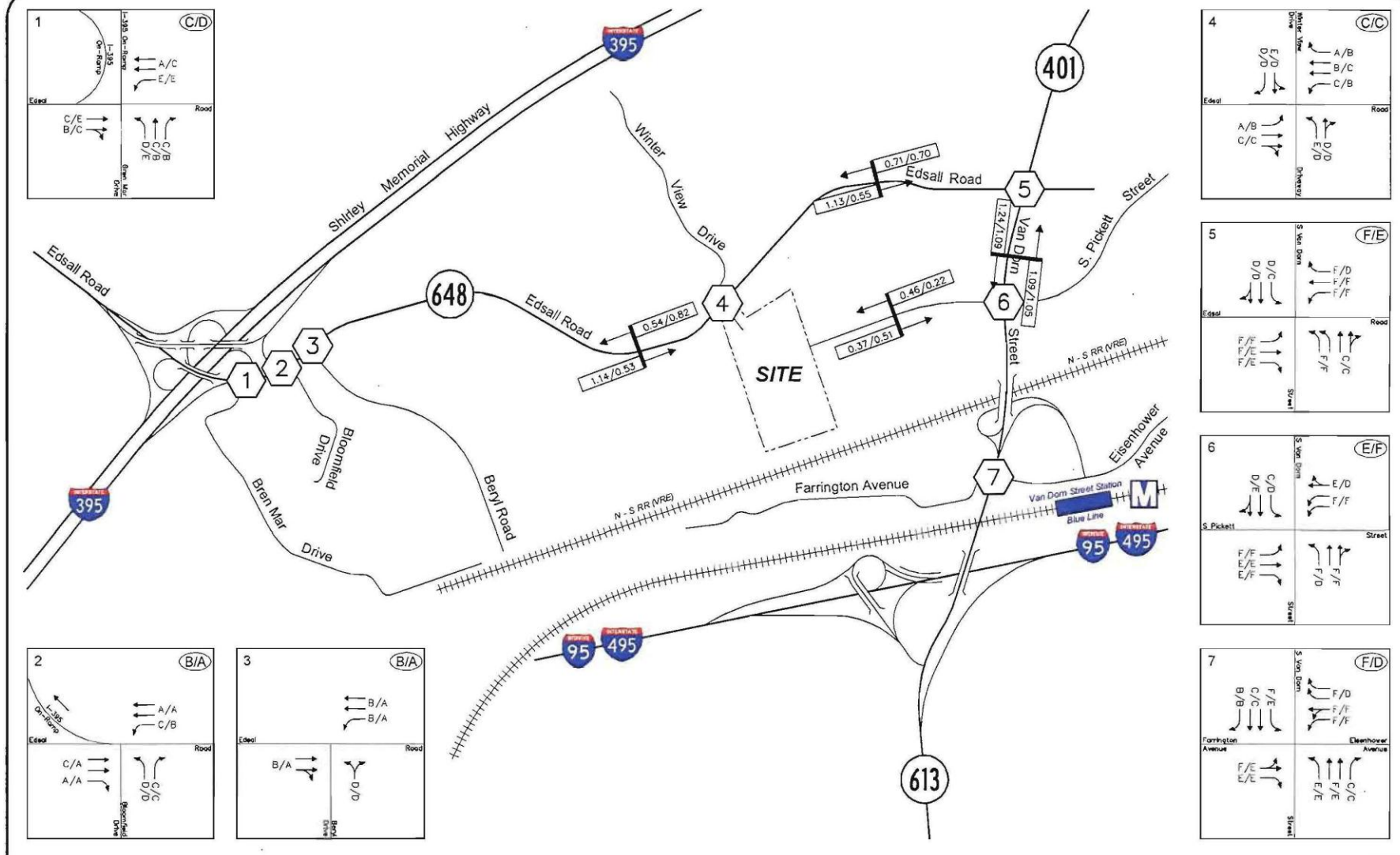
PM PEAK HOUR

| | 2010 | 2030 |
|-----------------|-------------------|--------------------|
| NB Movement: | LOS F (106.1 sec) | LOS F (1026.5 sec) |
| Failing: NB, SB | | |

POTENTIAL SOLUTIONS

Exclusive NB Left Turn Lane





2030 Levels of Service (With BRAC)



South Van Dorn Street at Edsall Road

2030 LEVELS OF SERVICE AND AVERAGE DELAY (WITH BRAC)

Route 613 (South Van Dorn Street) at Route 648 (Edsall Road)

AM PEAK HOUR

| | 2010 | 2030 |
|---------------------------------|------------------|-------------------|
| Overall Intersection Operation: | LOS D (53.8 sec) | LOS F (354.6 sec) |

Failing: EBL(+325.5),EBT(+142.6),EBR(+232.8),WBL(+1,096),WBT(+981),WBR(+85.2),NBL

PM PEAK HOUR

| | 2010 | 2030 |
|---------------------------------|------------------|------------------|
| Overall Intersection Operation: | LOS D (43.2 sec) | LOS E (64.3 sec) |

Failing: EBL(+59.7), WBL(+54.9), WBT(+112.1), NBL

POTENTIAL SOLUTIONS

Widen South Van Dorn to 6 Lanes or Construct Transit-way in Median



South Van Dorn Street at South Pickett Street

2030 LEVELS OF SERVICE AND AVERAGE DELAY (WITH BRAC)

Route 613 (South Van Dorn Street) at South Pickett Street

AM PEAK HOUR

| | 2010 | 2030 |
|---------------------------------|------------------|------------------|
| Overall Intersection Operation: | LOS C (33.5 sec) | LOS E (77.9 sec) |

Failing: EBL(+36.1), WBL, NBL(+262.2), NBTR(+50.6)

PM PEAK HOUR

| | 2010 | 2030 |
|---------------------------------|------------------|------------------|
| Overall Intersection Operation: | LOS D (40.7 sec) | LOS F (91.9 sec) |

Failing: EBL(+21.3), EBR(+113), WBL(+24.7), NBTR(+69.9)

POTENTIAL SOLUTIONS

Widen South Van Dorn to 6 Lanes or Construct Transit-way in Median



***South Van Dorn Street at Eisenhower Avenue
(Access to Van Dorn Metrorail Station)***

2030 LEVELS OF SERVICE AND AVERAGE DELAY (WITH BRAC)

Route 613 (South Van Dorn Street) at Eisenhower Avenue

AM PEAK HOUR

| | 2010 | 2030 |
|---------------------------------|------------------|-------------------|
| Overall Intersection Operation: | LOS D (49.3 sec) | LOS F (192.8 sec) |

Failing: EBLT, WBL(+134.8), WBLT (+132.1), WBR(+416.3), NBT(+81.7), SBL(+65.7)

PM PEAK HOUR

| | 2010 | 2030 |
|---------------------------------|------------------|------------------|
| Overall Intersection Operation: | LOS D (35.1 sec) | LOS D (48.1 sec) |

Failing: WBL, WBLT

POTENTIAL SOLUTIONS

Widen South Van Dorn to 6 Lanes or Construct Transit-way in Median